CITY OF CARDIFF.

ANNUAL REPORT

FOR 1917

OF THE

MEDICAL OFFICER OF HEALTH.

EDWARD WALFORD, M.D., D.P.H., F.R.MET.SOC.,

MEDICAL OFFICER OF HEALTH, CITY AND PORT OF CARDIFF;
SCHOOL MEDICAL OFFICER, CARDIFF EDUCATION AUTHORITY.

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CARDIFF:
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* Cert. Royal San. Inst. ‡ Cert. Health Visitor and School Nurse Royal San. Inst.
‖ Cert. Meat Insp. Royal San. Inst † On Military Service.

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CITY OF CARDIFF.

CITY HALL,

CARDIFF,

May, 1918.

To the Right Honourable The Lord Mayor, Aldermen and Members of the City Council of Cardiff.

MY LORD MAYOR AND GENTLEMEN,

The Annual Report for 1917, which I have the honour of presenting to you, has been considerably reduced in volume. The conditions which rendered this reduction necessary in the case of the Report for 1916 unfortunately still continue. All the members of the permanent Staff of the Medical Officer of Health of military age and fit for Military Service have been called up for this service and in some cases their places have been temporarily filled, the result being that the routine work of the Department, especially the clerical work, has been carried on under difficulties. The Local Government Board have issued circular letters in which they suggest the omission of many details usually inserted in Annual Reports, and in which they state that, having regard to the necessity for strict economy in the use of paper and in demands on printing establishments, interim reports only should be made for the year 1917. In these circumstances this Report will contain only a brief account of the routine administrative work and an abbreviated statistical record.

The members of the Staff absent on Military duty comprise one of the Assistant Medical Officers, five Sanitary Inspectors, one Health Visitor, four Clerks, and Van Driver.

As a result a temporary re-arrangement of the duties of the remaining members of the Staff was necessitated, and temporary appointments of four Clerks were made.

TABLE I

The following Table gives the number of houses in each Municipal Ward in Cardiff, as shown by the enumeration made in Sept., 1917, by the Inspectors in the Department of the Medical Officer of Health :—

Municipal Wards.	Dwelling houses, including Business Premises.				Lock-up Shops		Houses being Built.	Totals.
	Inhabited.	Occupied for Business Purposes only.	Vacant Houses. Number	Vacant Houses. Per Cent.	Occupied	Vacant.		
Central	1,818	384	23	1·2	298	19	...	2,542
South	1,606	212	7	0·4	28	5	...	1,858
Cathays	4,267	21	15	0·3	16	10	...	4,329
Adamsdown... ...	1,953	43	14	0·7	7	1	...	2,018
Riverside	3,145	46	24	0·7	21	5	...	3,241
Canton	4,893	25	12	0·2	7	2	...	4,939
Grangetown ...	3,803	17	7	0·1	4	2	...	3,833
Roath	3,807	28	20	0·5	17	2	6	3,880
Park	4,657	75	12	0·2	23	3	1	4,771
Splott	3,223	24	5	0·1	5	...	...	3,257
TOTALS ...	33,172	875	139	0·4	426	49	7	34,668

VITAL STATISTICS.—The statistics in this report are based upon the Registrar General's estimate of the civil population of Cardiff for the middle of the year 1917, *i.e.*, 180,341. The population of the City enumerated at the Census of April, 1911, amounted to 182,259, being an increase of 17,926 over the census of 1901 (164,333). The increase in the population of the whole City during the ten years ended 31st March, 1911, was at the rate of 10·9 per cent. The excess of births over deaths during this period was 25,031. The number of births amounted to 50,853, and the deaths to 25,822, but the actual increase in the population according to the census returns was 17,926, or a difference of 7,105. This would imply a considerable migration of population from the City to the adjoining districts during the period in question.

The following is a Summary of the Vital Statistics for the year 1917 :—

Estimated Civil Population ... 186,341

Births	3,635	Birth-rate per 1,000	18·5
Deaths	2,433	Death-rate per 1,000	13·4
Deaths under 1 year	360	Deaths under 1 year per 1,000 births	99

TABLE II.

Table showing the number of deaths and death-rates per 1,000 from Zymotic, Respiratory and Tuberculous Diseases during the year 1917, compared with the average annual death-rates from these diseases during the preceding ten years (1907–1916) :—

Cause of Death	Number of Deaths	Death-rate per 1,000	Death-rate per 1,000, 1906-1915 (average)
Small-pox	...	...	0·002
Measles	14	0·07	0·30
Scarlet Fever	3	0·01	0·06
Diphtheria	19	0·10	0·16
Enteric Fever	4	0·02	0·03
Whooping Cough	44	0·24	0·22
Respiratory Diseases	472	2·61	2·13
Pulmonary Tuberculosis	281	1·55	1·22
Other Tuberculous Diseases	58	0·32	0·42

TABLE III.

Deaths and death-rate per 1,000 births from Diarrhœa and Enteritis (under 2 years) :—

	Number of Deaths	Death-rate per 1,000 births	Death-rate per 1000 births, 1907-1916 (average)
Diarrhœa and Enteritis (under 2 years) ...	55	15·1	23·8

TABLE IV.

Table showing the birth-rate and death-rate per 1,000 persons living, and rate of infant mortality in 1917, compared with the rates in 1916, the average rates for the ten years 1907–1916 in Cardiff, and the rates during the year 1917 in England and Wales and the 96 great towns :—

	Period	Birth-rate	Death-rate	Deaths under one year per 1,000 births
Cardiff	1917	18·5	13·4	99
Cardiff	1916	23·6	13·7	89
Cardiff	1907-1916	25·3	13·7	113
England and Wales	1917	17·8	14·4	97
96 Great Towns	1917	18·1	14·6	104

MARRIAGES.—The return of the number of marriages in the City of Cardiff during the years 1904–1917, with the rate of persons married per 1,000 of the population, is given below :—

TABLE V.

YEAR.	MARRIAGES.	RATE OF PERSONS MARRIED PER 1,000 living
1904	1,563	17·7
1905	1,650	18·8
1906	1,769	19·2
1907	1,743	18·5
1908	1,759	18·3
1909	1,803	18·4
1910	1,728	17·3
1911	1,646	18·0
1912	1,938	20·9
1913	1,976	21·1
1914	2,225	23·6
1915	2,401	25·4
1916	1,825	19·7
1917	1,710	18·9

BIRTHS.—During the year 1917 the births registered in the City numbered 3,684 ; of these 1,909 were males and 1,775 were females. The nett number of births belonging to the City was 3,635 ; of these 1,885 were males, and 1,750 females. The number of births corresponded to an annual birth-rate of 18·5 per 1,000 persons living. During the ten years ended 1891, the birth-rate in Cardiff averaged 39·9 per 1,000, as compared with 25·3, the average rate during the years 1907–1916.

The following table gives the annual number of births and the birth-rates in Cardiff in periods since 1852, from which it will be seen that a considerable decline in this rate has taken place during recent years.

TABLE VI.

Period.	Number of Births.		Birth-rate per 1,000.	
1852–1861	1,144	Average	44·2	Average
1862–1871	1,364		37·7	
1872–1881	2,433		36·5	
1882–1891	4,166		39·9	
1892–1901	5,241		35·3	
1902–1911	5,049		28·9	
1912	4,597		24·9	
1913	4,900		26·2	
1914	4,783		25·3	
1915	4,645		24·6	
1916	4,375		23·6	
1917	3,635		18·5	

TABLE VII.

Showing the number of legitimate and illegitimate births, male and female, in each municipal ward during the year 1917 :—

Municipal Wards.	Legitimate.		Illegitimate.		Totals.		TOTALS.
	Males.	Females.	Males.	Females.	Males.	Females.	
Central	103	89	4	9	107	98	205
South	102	98	2	5	104	103	207
Cathays	231	199	10	9	241	208	449
Adamsdown ...	128	129	11	7	139	136	275
Riverside	140	121	7	7	147	128	275
Canton	253	241	11	14	264	255	519
Grangetown ...	277	274	6	6	283	280	563
Roath	176	160	10	7	186	167	353
Park	181	158	6	8	187	166	353
Splott	224	208	3	1	227	209	436
Totals ...	1,815	1,677	70	73	1,885	1,750	3,635

DEATHS.—The total number of deaths registered at all ages and from all causes in the City of Cardiff during the year 1917 amounted to 2,464, including non-residents who died within the district. If corrected by the subtraction of non-residents who died in public institutions in Cardiff, and by the addition of residents who died in institutions outside the City, the number is 2,433, corresponding to an annual death-rate of 13·4.

From Table VIII. it will be seen that a continuous decline in the death-rate has taken place since these rates were first recorded in 1852–1861, when the mean rate for the ten years reached 29·2 per 1,000.

The death-rate throughout the country as compared with that of Cardiff for the year 1917 is given below :—

	Death-rate per 1,000 persons living.
England and Wales	14·4
96 Great Towns	14·6
148 Smaller Towns	13·2
CARDIFF	13·4

TABLE VIII.

The following table gives the vital statistics in periods since 1852, and shows the marked decline in the general death-rate, in the death-rate from zymotic diseases, and in the birth-rate in successive periods :—

Years	Population	Births	Birth-rate per 1,000	Deaths	Death-rate per 1,000	Deaths from Zymotic Diseases	Zymotic Death-rate per 1,000
1852—1861 ...	25,889	1,144	44·2	756	29·2	222	8·58
1862—1871 ...	36,152	1,364	37·7	875	24·2	167	4·62
1872—1881 ...	66,639	2,433	36·5	1,335	20·0	218	3·27
1882—1891 ...	104,420	4,166	39·9	2,255	21·6	347	3·32
1892—1901 ...	148,606	5,241	35·3	2,674	18·0	355	2·39
1902—1911 ...	174,490	5,049	28·9	2,597	14·8	286	1·63
1912	184,633	4,507	24·9	2,563	13·9	362	1·96
1913	186,554	4,900	26·2	2,567	13·7	258	1·38
1914	188,495	4,783	25·3	2,644	14·0	314	1·66
1915	188,495	4,645	24·6	2,808	14·8	233	1·23
1916	184,900 (Corrected)	4,375	23·6	2,546	13·7	171	0·92
1917	180,341 (do.)	3,635	18·5	2,433	13·4	139	0·77

Means.

TABLE IX.

Showing the number of deaths and death-rates at various age periods during the last six years :—

Ages.	Number of Deaths.						Death-rate per 1,000 persons living at each age group.					
	1912	1913	1914	1915	1916	1917	1912	1913	1914	1915	1916	1917
Under 5 years	851	761	793	742	582	521	36·9	36·9	38·1	35·6	27·9	25·8
5 to 15 ,,	100	104	113	130	111	90	2·5	2·6	2·8	3·2	2·8	2·3
15 ,, 25 ,,	127	134	132	142	153	174	3·5	3·7	3·6	3·9	4·2	4·9
25 ,, 65 ,,	946	969	993	1,060	979	983	12·0	11·5	11·7	12·4	11·5	11·9
65 years and upwards ...	539	599	613	734	721	665	99·9	84·2	85·1	101·9	100·1	95·5
At all Ages ...	2,563	2,567	2,644	2,808	2,546	2,433	13·9	13·7	14·0	14·8	13·7	13·4

TABLE X.

Death-rates from all causes per 1,000 persons living in the several municipal wards, the highest rate in each year being underlined :—

	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917
Cardiff (Whole District) ...	14·3	14·2	13·0	14·1	13·9	13·7	14·0	14·8	13·7	13·4
Roath Ward	10·7	11·3	11·9	13·0	12·8	9·5	10·4	12·5	11·1	9·6
Park Ward	8·9	8·9	9·3	12·4	11·9	10·8	11·7	12·5	11·1	11·9
Splott ,, ...	13·2	10·7	12·9	12·9	14·0	14·2	17·8	14·1	10·3	11·0
Central ,, ...	12·8	13·0	20·4	22·1	21·0	19·4	22·9	21·8	22·4	18·3
South ,, ...	15·4	14·3	18·3	21·4	19·1	21·2	22·6	17·9	23·9	23·8
Cathays ,, ...	10·0	9·3	10·5	12·3	12·6	13·3	10·9	13·4	11·4	11·8
Adamsdown Ward ...	15·7	17·2	14·9	16·3	16·3	16·6	15·7	18·0	16·9	13·8
Riverside ,, ...	10·7	10·8	13·6	12·6	10·6	12·1	11·5	13·9	12·8	12·3
Canton ,, ...	10·3	10·0	10·7	12·7	12·9	12·0	12·9	12·8	10·8	10·8
Grangetown ,, ...	14·0	14·0	14·0	14·2	15·6	15·3	13·8	15·7	13·3	11·6

TABLE XI.—Analysis of Births and Deaths in the City of Cardiff, in Registration Sub-Districts, and in Municipal Wards, during the year 1917.

LOCALITIES	*Population (Civil)	Area in Acres (Land and Inland Water)	Persons per Acre	Births		Deaths		Deaths under 1 Year		Seven Principal Zymotic Diseases		Principal Zymotic Diseases.														Phthisis, Pulmonary Tuberculosis		Other Tuberculous Diseases.		Respiratory Diseases	
												Small-pox		Measles		Scarlet Fever		Whooping Cough		Diphtheria		Typhoid Fever		Diarrhœa							
				Number	Birth-rate	Number	Death-rate	Number	Number per 1000 Births	Number	Death-rate	Deaths	Death-rate	Deaths	Death-rate	Deaths	Death-rate	Deaths	Death-rate	Deaths	Death-rate	Deaths	Death-rate	Deaths	Death-rate	Deaths	Death-rate	Deaths	Death-rate	Deaths	Death-rate
City of Cardiff ...	180,341	6,373	28	3,635	18·5	2,433	13·4	360	99	139	0·77	...	...	14	0·07	3	0·01	44	0·24	19	0·10	4	0·02	55	0·30	281	1·55	58	0·32	472	2·61
East Cardiff Registration Sub-District. Roath Ward ...	22,282	...	...	353	15·8	215	9·6	31	87	7	0·31	...	...	1	0·04	...	...	2	0·08	1	0·04	...	...	3	0·13	15	0·67	7	0·31	43	1·76
East Cardiff Registration Sub-District. Park Ward ...	24,305	...	...	353	14·5	290	11·9	32	90	17	0·69	...	...	3	0·12	1	0·04	4	0·16	3	0·12	...	...	6	0·24	45	1·85	11	0·45	38	1·56
East Cardiff Registration Sub-District. Splott Ward ...	19,741	...	...	436	22·0	219	11·0	31	71	8	0·40	...	...	...	...	...	...	1	0·05	3	0·15	...	...	4	0·20	28	1·41	6	0·30	48	2·43
East Cardiff	66,328	481	137	1,142	17·2	724	10·9	94	82	32	0·48	...	...	4	0·06	1	0·01	7	0·10	7	0·10	...	...	13	0·19	88	1·32	24	0·36	129	1·94
Central Cardiff Registration Sub-District. Central Ward ...	11,043	...	...	211	19·1	203	18·3	26	123	8	0·72	...	...	...	...	...	...	3	0·27	1	0·09	...	...	4	0·36	25	2·26	4	0·36	40	3·62
Central Cardiff Registration Sub-District. South Ward ...	10,168	...	...	211	20·7	242	23·8	32	151	9	0·88	...	...	...	...	...	...	3	0·29	2	0·19	1	0·09	3	0·29	56	5·50	7	0·68	51	5·01
Central Cardiff Registration Sub-District. Cathays Ward ...	24,091	...	...	433	17·9	285	11·8	44	101	23	0·95	...	...	...	...	1	0·04	10	0·41	3	0·12	...	...	9	0·37	29	1·20	7	0·29	54	2·24
Central Cardiff Registration Sub-District. Adamsdown Ward	13,405	...	...	281	20·9	186	13·8	30	106	12	0·89	...	...	1	0·07	...	...	1	0·07	3	0·22	1	0·07	6	0·44	21	1·56	5	0·37	33	2·46
Central Cardiff ...	58,707	3,832	15	1,136	19·3	916	15·6	132	115	52	0·88	...	...	1	0·01	1	0·01	17	0·28	9	0·15	2	0·03	22	0·37	131	2·23	23	0·39	178	3·03
West Cardiff Registration Sub-District. Riverside Ward...	18,370	...	...	275	14·9	226	12·3	27	98	12	0·65	...	...	3	0·16	...	...	7	0·38	1	0·05	...	...	1	0·05	15	0·81	1	0·05	45	2·44
West Cardiff Registration Sub-District. Canton Ward ...	26,256	...	...	519	19·7	284	10·8	42	80	20	0·76	...	...	6	0·22	...	...	7	0·26	...	...	1	0·03	6	0·22	25	0·95	...	...	58	2·20
West Cardiff Registration Sub-District. Grangetown Ward	24,191	...	...	563	23·2	283	11·6	65	115	23	0·95	...	...	...	...	1	0·04	6	0·24	2	0·08	1	0·04	13	0·53	22	0·90	10	0·41	62	2·56
West Cardiff	68,817	2,060	33	1,357	19·7	793	11·5	134	98	55	0·79	...	...	9	0·13	1	0·01	20	0·29	3	0·04	2	0·02	20	0·29	62	0·90	11	0·15	165	2·39

* The civil population of the whole city is that estimated by the Registrar-General, and the populations of the Registration Sub-districts and of the Municipal Wards are estimated on the basis of the number of inhabited houses in September, 1917.

INFECTIOUS DISEASES.—The 2,433 deaths from all causes included 139 from the principal infectious diseases. This number was equal to an inclusive death-rate from these diseases of 0·77 per 1,000 persons living, as compared with 0·92 the rate in 1916, and with 1·39 the average rate for the ten years 1907–1916.

The mortality from these diseases in Cardiff was distributed in each quarter of the year 1917 as follows :—

	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.
Measles ...	—	1	—	13
Scarlet Fever ...	1	1	1	—
Diphtheria ...	7	4	3	5
Enteric Fever ...	1	—	2	1
Whooping Cough ...	12	23	6	3
Diarrhœa	13	8	17	17

In the Registration Sub-Districts, the mortality during 1917 from these diseases was as follows :—

	No. of Deaths.	Death-rate per 1,000.
East Cardiff	32	0·48
Central ,, ...	52	0·88
West ,, ...	55	0·79

TABLE XII.

Death-rates from Infectious Diseases per 1,000 persons living in Cardiff :—

	1901-1910	1911	1912	1913	1914	1915	1916	1917
Small-pox	0·00	0·00	0·00	0·00	0·00	0·00	0·01	0·00
Measles	0·34	0·03	1·09	0·05	0·32	0·19	0·10	0·07
Scarlet Fever	0.10	0·08	0·04	0·09	0·10	0·05	0·03	0·01
Diphtheria	0·20	0·20	0·17	0·22	0·22	0·23	0·18	0·10
Whooping Cough ...	0·31	0·29	0·29	0·09	0·38	0·18	0·15	0·24
Enteric Fever	0·05	0·03	0·08	0·03	0·06	0·01	0·02	0·02
Diarrhœa	0.50	1·32	0·27	0·89	0·56	0·55	0·40	0·30

TABLE XIII.

The following table shows the number of cases of infectious disease notified in the City of Cardiff in each year since the adoption of the Infectious Disease (Notification) Act, 1889 :...

Year.	Small-Pox.	Diphtheria (including Membranous Croup)	Scarlet Fever.	Enteric Fever.	Typhus Fever.	Erysipelas	Puerperal Fever.	Continued Fever.	Pulmonary Tuberculosis.	Other Forms of Tuberculosis.	Measles	Totals.
1890	—	72	335	150	—	45	4	2	—	—	—	608
1891	9	70	658	130	—	52	10	—	—	—	—	956
1892	5	164	1,851	118	—	95	12	3	—	—	—	2,248
1893	4	479	816	103	41	152	24	2	—	—	—	1,621
1894	10	343	577	62	1	135	19	3	—	—	—	1,150
1895	1	248	484	79	—	132	17	5	—	—	—	966
1896	45	306	874	74	1	134	21	7	—	—	—	1,462
1897	7	516	758	117	—	163	12	7	—	—	—	1,580
1898	—	960	332	80	—	133	18	6	—	—	—	1,529
1899	—	640	184	94	—	176	13	8	—	—	—	1,115
1900	4	714	383	95	4	106	15	5	—	—	—	1,326
1901	8	734	1,362	73	—	152	16	3	—	—	—	2,348
1902	2	701	1,433	69	—	169	13	7	—	—	—	2,394
1903	65	438	963	100	6	145	20	5	—	—	—	1,742
1904	11	406	658	40	—	112	12	2	—	—	—	1,241
1905	24	327	362	39	—	133	14	3	—	—	—	902
1906	2	333	776	77	—	117	17	1	—	—	—	1,323
1907	16	304	950	62	—	147	16	—	—	—	—	1,495
1908	—	291	475	55	—	167	15	1	—	—	—	1,004
1909	2	283	616	46	—	132	6	2	—	—	—	1,087
1910	1	363	887	36	—	137	8	—	346	—	—	1,778
1911	—	491	753	44	—	127	8	—	366	—	—	1,789
1912	—	536	472	56	—	170	11	—	499	—	—	1,744
1913	3	558	902	27	—	145	8	—	520	166	—	2,329
1914	3	620	1,086	29	—	125	11	—	353	81	—	2,308
1915	—	469	751	20	—	100	12	1	368	102	—	1,823
1916	51	384	478	26	—	90	9	1	372	141	1,799	3,350
1917	...	266	248	13	—	48	8	—	349	110	1,738	2,780

MEASLES.—Fourteen deaths were registered from Measles during the year, being equal to an annual death-rate of 0·07 per 1,000 persons living, as compared with 0·10 the rate in 1916, and with 0·30 the average rate in the years 1907–1916.

The notifications and mortality from this disease in Cardiff were distributed in each quarter of the year 1917 as follows :—

	No. of notifications.	No. of deaths.
First Quarter	139	—
Second ,,	414	1
Third ,,	67	—
Fourth ,,	1,118	13

SCARLET FEVER.—Three deaths were registered from scarlet fever during the year 1917, being equal to an annual death-rate of 0·01 per 1,000 persons living, as compared with 0·03 the rate in 1916, and with 0·06, the average rate in the ten years 1907–1916.

The mortality from scarlet fever throughout the country was as follows during the year 1917 :—

England and Wales	0·02
96 Great Towns	0·03
148 Smaller Towns	0·02
Cardiff	0·01

The number of cases of scarlet fever notified during the year amounted to 248, as compared with 478, the number notified in the previous year. The sickness-rate, or rate of notified cases per 1,000 of the population, amounted to 1·37.

The number of cases of scarlet fever notified during each quarter of the year in the three registration sub-districts were as follows :—

Registration Sub-Districts.	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.	Totals.
East Cardiff	19	8	14	30	71
Central ,, ...	14	20	11	28	73
West ,, ...	29	15	26	34	104

The age periods of persons notified to be suffering from scarlet fever and the percentage proportion of deaths to cases notified in each age period were as follows :—

Ages.	No. of Cases Notified.	Deaths.	Mortality per cent.
0– 1 year	1	—	—
1– 5 years	51	2	3·9
5–15 ,, ...	169	1	0·5
15–25 ,, ...	19	—	—
25–65 ,, ...	8	—	—

DIPHTHERIA AND MEMBRANOUS CROUP.—Nineteen deaths were registered from these diseases during the year, corresponding to an annual death-rate of 0·10 per 1,000 persons living, as compared with 0·18, the rate in 1916, and with 0·16, the rate in the ten years 1907–1916.

The mortality from diphtheria throughout the country was as follows during the year 1917 :

	Death-rate per 1,000.
England and Wales	0·13
96 Great Towns	0·13
148 Smaller Towns	0·13
CARDIFF	0·10

The number of cases of diphtheria and membranous croup notified during the year amounted to 266, as compared with 384 in 1916. The fatality, or proportion of deaths to cases notified, was 7·1 per cent. Of the cases notified, 213, or 80·0 per cent., were removed to the Cardiff Isolation Hospital.

Number and distribution of cases of diphtheria notified during each quarter of the year 1917 :—

Registration Sub-Districts.	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.	Totals.
East Cardiff ...	29	24	34	23	110
Central ,, ...	27	21	16	13	77
West ,, ...	29	11	14	25	79

The number of notifications and the rate of fatality at various age periods during 1917, are shewn below :—

Ages.	Cases notified.	Deaths.	Mortality per cent. of cases notified.
0– 1 year	2	— ...	—
1– 5 years ...	80	14 ...	17·5
5–15 ,, ...	145	5 ...	3·4
15–25 ,, ...	24	— ...	—
25 years and upwards ...	15	— ...	—

During the year swabs were sent to the Cardiff and County Public Health Laboratory from the throats of 212 cases suspected to be diphtheria, the bacteriological examination giving positive results in 54 cases, and negative results in 158.

ENTERIC FEVER.—The number of deaths registered from enteric fever during the year amounted to 4, being equivalent to an annual death rate of 0·02 per 1,000 persons living, as compared with 0·02 in the year 1916, and with 0·04 the average death-rate in the ten years 1907–1916.

The mortality from this disease in the year 1917 throughout the country was as follows :—

	Death-rate per 1,000.
England and Wales	0·03
96 Great Towns	0·02
148 Smaller Towns	0·03
CARDIFF	0·02

The number of cases of enteric fever notified during 1917 was 13 ; of these 9, or 69·2 per cent., were removed to the Cardiff Isolation Hospital.

The following table shows the death-rates per 1,000 from enteric fever in periods since the year 1881 in Cardiff :—

1881-1890	1891-1900	1901-1910	1911	1912	1913	1914	1915	1916	1917
0·33	0·14	0·05	0·03	0·08	0·03	0·06	0·01	0·02	0·02

CARDIFF SANATORIUM.

Report of the Medical Superintendent for the year 1917.

	0 to 5 years.	5 to 15 years.	15 to 25 years.	25 to 35 years.	35 to 45 years.	45 to 55 years.	55 to 65 years.	Totals.
Remaining in Hospital 30th Dec., 1916 :—								
Scarlet Fever	15	19	3	1	...	...	...	38
Diphtheria	10	15	1	3	1	...	...	30
Enteric Fever	...	...	4	...	1	...	...	5
Totals	25	34	8	4	2	...	...	73
Admitted during the year 1917 :—								
Scarlet Fever	41	150	24	7	2	...	...	224
Diphtheria	63	120	34	10	2	...	1	230
Enteric Fever	...	1	3	3	8	...	...	15
Other Diseases	...	...	21	12	5	1	1	40
Totals	104	271	82	32	17	1	2	509
Totals under treatment in 1917	129	305	90	36	19	1	2	582
Of the above there were discharged :—								
(*a*) Recovered :—								
Scarlet Fever	46	130	22	8	2	...	...	208
Diphtheria	58	121	32	11	3	...	1	226
Enteric Fever	...	1	5	2	8	...	...	16
Other Diseases	...	...	20	12	3	1	1	37
Totals	104	252	79	33	16	1	2	487
(*b*) Died :—								
Scarlet Fever	2	...	...	...	...	...	...	2
Diphtheria	7	4	...	...	...	...	...	11
Enteric Fever	...	...	1	1	1	...	...	3
Other Diseases	...	...	1	...	2	...	...	3
Totals	9	4	2	1	3	...	...	19
Remaining in Hospital 29th Dec., 1917 :—								
Scarlet Fever	8	39	5	...	...	...	...	52
Diphtheria	8	10	3	2	...	...	...	23
Enteric Fever	...	...	1	...	...	...	...	1
Totals	16	49	9	2	...	...	...	76
Totals under treatment in 1917 ...	129	305	90	36	19	1	2	582

Mortality per cent. under treatment :—

Scarlet Fever ...	·8	Enteric Fever ...	15·0
Diphtheria	4·23	Other Diseases ...	7·5

B. W. BROAD, M.B., *Medical Superintendent.*

TUBERCULOSIS.—The deaths from all forms of tuberculosis during the year 1917 amounted to 339, including 281 from pulmonary tuberculosis or phthisis. The mortality from phthisis was equal to an annual death-rate of 1·55 per 1,000, as compared with 1·27, the average rate in the ten years 1907–1916.

The mortality from phthisis and other forms of tuberculosis in Cardiff since the year 1880 is shown in the following table :—

TABLE XIV.

Year.	Deaths from Phthisis.	Deaths from Other Forms of Tuberculosis.	Death-rate per 1,000 (Phthisis).	Year.	Deaths from Phthisis	Deaths from Other Forms of Tuberculosis.	Death-rate per 1,000 (Phthisis).
1880 ...	177	89	3·21	1899 ...	208	119	1·32
1881 ...	176	77	2·96	1900 ...	212	110	1·25
1882 ...	187	68	2·86	1901 ...	179	122	1·05
1883 ...	186	58	2·67	1902 ...	224	98	1·34
1884 ...	223	55	2·97	1903 ...	217	93	1·28
1885 ...	241	107	3·58	1904 ...	246	98	1·44
1886 ...	214	67	2·78	1905 ...	235	103	1·36
1887 ...	210	75	2 72	1906 ...	229	95	1·31
1888 ...	211	93	2·80	1907 ...	220	91	1·25
1889 ...	224	108	2·79	1908 ...	218	94	1·22
1890 ...	231	142	3·18	1909 ...	234	74	1·30
1891 ...	239	124	2·78	1910 ...	216	88	1·19
1892 ...	242	127	1·82	1911 ...	235	81	1·28
1893 ...	230	151	1·68	1912 ...	244	64	1·32
1894 ...	227	134	1·62	1913 ...	233	69	1·24
1895 ...	242	127	1·67	1914 ...	230	63	1·22
1896 ...	203	114	1·38	1915 ...	252	96	1·33
1897 ...	206	131	1·99	1916 ...	255	91	1·37
1898 ...	203	117	1·32	1917 ...	281	58	1·55

TABLE XV.

Death-rates from Phthisis per 1,000 persons living in the several Municipal Wards :—

	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917
CARDIFF ...	1·31	1·25	1·22	1·30	1·19	1·28	1·32	1·24	1·22	1·33	1·37	1·55
Roath Ward	0·74	0·72	0·71	0·93	1·18	1·11	0·83	0·80	0·49	0·90	0·72	0·67
Park ,,	0·69	0·79	0·82	0·95	0·92	1·24	0·99	0·57	1·03	1·15	1·36	1·85
Splott ,,	1·12	0·59	0·81	0·69	0·76	1·19	1·09	0·86	1·11	1·07	1·10	1·41
Central ,,	1·23	0·62	1·22	0·81	1·77	3·44	2·64	3·04	2·35	2·89	3·75	2·26
South ,,	1·15	1·54	1·53	1·40	2·50	2·86	2·57	2·93	3·44	1·47	2·85	5·50
Cathays ,,	0·67	0·75	1·04	0·72	1·02	0·86	1·22	1·28	0·87	0·96	1·24	1·20
Adamsdown ,,	1·96	1·59	1·09	1·42	1·24	1·21	1·50	1·10	1·04	1·56	1·40	1·56
Riverside ,,	0·94	1·06	1·48	0·60	1·27	0·80	1·35	1·26	1·03	1·03	0·81	0·81
Canton ,,	0·78	1·02	0·76	0·98	1·05	1·04	1·17	1·29	1·35	1·14	0·69	0·95
Grangetown ,,	1·34	1·10	0·90	1·09	1·08	0·90	1·25	1·01	1·07	1·77	1.36	0·90

The 339 deaths from tuberculosis during the year 1917 includes therefore 29 in Glan Ely and other Hospitals, 1 in a Sanatorium, 38 in the Cardiff Union Infirmary, and also 18 deaths of persons belonging to Cardiff who died elsewhere. The remaining 253 dying in their own homes in Cardiff.

TABLE XVI.

Deaths from Pulmonary Tuberculosis and Other Forms of Tuberculosis—age periods and sex :—

Age Periods.	Deaths from Tuberculosis.					
	Pulmonary.			Non-Pulmonary.		
	Males	Females	Totals	Males	Females	Totals
Under 1 year	...	...	...	3	2	5
1 and under 5	1	...	1	7	7	14
5 ,, ,, 10	1	2	3	3	7	10
10 ,, ,, 15	3	12	15	5	3	8
15 ,, ,, 20	8	21	29	4	3	7
20 ,, ,, 25	25	27	52	...	...	...
25 ,, ,, 35	34	25	59	2	2	4
35 ,, ,, 45	37	19	56	4	1	5
45 ,, ,, 55	30	13	43	1	1	2
55 ,, ,, 65	14	3	17	—	—	—
65 and upwards	4	2	6	1	2	3
Totals ...	157	124	281	30	28	58

TABLE XVII.

Deaths from Pulmonary Tuberculosis and Other Forms of Tuberculosis in Municipal Wards :—

	Deaths from Tuberculosis.					
	Pulmonary			Non-Pulmonary		
	Males	Females	Totals	Males	Females	Totals
Central	17	8	25	2	2	4
South	42	13	55	4	2	6
Cathays...	11	19	30	4	3	7
Adamsdown	14	7	21	3	2	5
Riverside	11	5	16	...	1	1
Canton	11	13	24	...	...	...
Grangetown	11	11	22	6	5	11
Roath	8	7	15	5	2	7
Park	19	26	45	5	6	11
Splott	13	15	28	1	5	6
Totals	157	124	281	30	28	58

TABLE XVIII.

Notifications of cases of Pulmonary Tuberculosis and Other Forms of Tuberculosis—age periods and sex :—

Age Periods.	Notifications of Tuberculosis					
	Pulmonary			Non-Pulmonary		
	Males	Females	Totals	Males	Females	Totals
Under 1 year	...	...	...	1	1	2
1 and under 5	...	...	...	11	5	16
5 ,, ,, 10	6	6	12	8	16	24
10 ,, ,, 15	6	14	20	12	13	25
15 ,, ,, 20	19	31	50	10	6	16
20 ,, ,, 25	26	28	54	4	5	9
25 ,, ,, 35	58	25	83	3	7	10
35 ,, ,, 45	46	16	62	2	3	5
45 ,, ,, 55	30	10	40	...	2	2
55 ,, ,, 65	14	4	18	1	...	1
65 and upwards	8	2	10	...	...	...
Totals	213	136	349	52	58	110

TABLE XIX.

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912.

Summary of Notifications during the year 1917.

	Notifications on Form A.													Notifications on Form B.					Notifications on Form C.	
	Primary Notifications.												Total Notifications (i.e., including cases previously notified by other doctors)	Primary Notifications.				Total Notifications (i.e., including cases previously notified by other doctors).	Poor Law Institutions.	Sanatoria.
	0 to 1	1 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 & upwards.	Total.		Under 5	5 to 10	10 to 15	Total.			
Pulmonary :—																				
Males	—	—	5	6	19	26	58	46	30	14	8	212	286	—	1	—	1	1	21	134
Females	—	—	5	13	31	28	25	16	10	4	2	134	208	—	1	1	2	3	1	56
Non-Pulmonary :—																				
Males	1	11	6	12	10	4	3	2	—	1	—	50	65	—	2	—	2	2	1	14
Females	1	5	14	12	6	5	7	3	2	—	—	55	67	—	2	1	3	5	2	21
Totals	2	16	30	43	66	63	93	67	42	19	10	451	626	—	6	2	8	11	25	225

TABLE XX.

Notifications of cases of Pulmonary Tuberculosis and Other Forms of Tuberculosis in Municipal Wards :—

Municipal Wards	Notifications of Tuberculosis					
	Pulmonary			Non-Pulmonary		
	Males	Females	Totals	Males	Females	Totals
Central	20	10	30	3	3	6
South	35	11	46	3	1	4
Cathays...	26	16	42	7	12	19
Adamsdown	15	10	25	2	4	6
Riverside	33	8	41	4	4	8
Canton	12	17	29	3	1	4
Grangetown	12	14	26	8	10	18
Roath	12	5	17	6	6	12
Park	29	27	56	9	9	18
Splott	19	18	37	7	8	15
Totals	213	136	349	52	58	110

TABLE XXI.

Cases of Tuberculosis visited by the Health Visitors—in Municipal Wards, and whether "insured" or "uninsured" persons, or "dependants."

Municipal Wards.	Insured.		Dependants.		Uninsured.		Totals
	Males	Females	Males	Females	Males	Females	
Central	10	1	1	6	7	4	29
South	10	3	1	2	15	2	33
Cathays	24	8	2	9	5	6	54
Adamsdown ...	14	4	2	4	1	2	27
Riverside	10	4	2	1	3	...	20
Canton	10	10	...	3	1	5	29
Grangetown ...	15	2	2	10	...	5	34
Roath	8	3	3	2	4	3	23
Park	16	8	5	14	7	3	53
Splott	15	8	7	10	3	6	49
Totals ..	132	51	25	61	46	36	351

TABLE XXII.

Cases admitted to and discharged from Sanatoria and Hospitals according to notifications (Forms C. and D.) received under the Tuberculosis Regulations, 1912 :—

Age Periods.	Admitted.			Discharged.		
	Males	Females	Totals	Males	Females	Totals
Under 1 year	...	...	...	...	...	...
1 and under 5	2	1	3	3	...	3
5 ,, ,, 10	2	7	9	11	4	15
10 ,, ,, 15	4	12	16	3	9	12
15 ,, ,, 20	17	13	30	13	14	27
20 ,, ,, 25	25	11	36	18	13	31
25 ,, ,, 35	58	20	78	52	7	59
35 ,, ,, 45	29	12	41	21	3	24
45 ,, ,, 55	26	2	28	12	2	14
55 ,, ,, 65	8	3	11	8	2	10
65 and upwards	1	...	1	1	...	1
Totals	172	81	253	142	54	196

Applications to the Cardiff Insurance Committee to Sanatorium Benefit and form of treatment recommended by the Committee :—

Applications	169
Form of Treatment :—	
Residential	78
Domiciliary	89
Institute (Dispensary)	42
No treatment	7

Many of the cases received more than one form of treatment ; the figures given above relate to the treatment recommended in all instances.

TABLE XXIII.

New cases of Tuberculosis (residents of Cardiff) examined at the Tuberculosis Institute (Welsh National Memorial Association) :—

Age Periods	Males	Females	Totals
Under 1 year	...	...	...
1 and under 5	5	2	7
5 ,, ,, 10	6	12	18
10 ,, ,, 15	12	18	30
15 ,, ,, 20	23	29	52
20 ,, ,, 25	20	27	47
25 ,, ,, 35	48	23	71
35 ,, ,, 45	29	11	40
45 ,, ,, 55	22	5	27
55 ,, ,, 65	7	2	9
65 and upwards	...	...	...
Totals	172	129	301

TABLE XXIV.

Distribution of Tuberculosis Institute cases in Municipal Wards and whether insured or uninsured persons :—

Municipal Wards	Insured	Uninsured	Totals
Central	11	8	19
South	7	17	24
Cathays	23	17	40
Adamsdown	19	10	29
Riverside	14	8	22
Canton	17	11	28
Grangetown	16	15	31
Roath	7	10	17
Park	24	24	48
Splott	25	18	43
Totals	163	138	301

CEREBRO SPINAL MENINGITIS.—The number of cases notified during the year was three. Lumbar punctures were made whenever possible. The contacts were examined, and when necessary naso-pharyngeal swabs were taken for bacteriolcgical examination.

INFANT MORTALITY.—The rate of infant mortality in Cardiff in the year 1917, calculated in the proportion of deaths under one year of age to 1,000 births registered, was at the rate of 99, compared with 89 in the year 1916, and with 113, the average rate for the ten years 1907–1916.

Rates of infant mortality throughout the country, as compared with that of Cardiff during 1917 :—

	Deaths under 1 year per 1,000 births.
England and Wales	97
96 Great Towns	104
148 Smaller Towns	93
CARDIFF	99

TABLE XXV.

The following table shows the rates of infant mortality in the several municipal wards, the highest rate in each year being underlined :—

	Deaths under one year per 1,000 births.									
	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917
Cardiff (Whole District) ...	124	103	111	135	110	115	109	106	89	99
Roath Ward	115	105	127	135	88	93	79	89	102	87
Park ,, ...	97	77	72	117	60	100	99	83	69	90
Splott ,, ...	130	84	109	152	93	111	160	73	80	71
Central ,, ...	135	96	179	160	199	136	113	155	212	123
South ,, ...	140	154	148	213	129	121	119	116	94	151
Cathays ,, ...	99	78	105	120	107	125	90	124	83	101
Adamsdown Ward ...	114	160	125	117	126	129	140	132	122	106
Riverside ,, ...	128	89	112	132	80	77	77	75	74	98
Canton ,, ...	127	101	94	120	115	107	100	95	51	80
Grangetown ,, ...	133	110	114	132	142	143	117	139	100	115

TABLE XXVI.

The chief causes of death amongst infants under one year of age in Cardiff during the years 1908–1917 are shewn in the following table :—

Cause of Death.	Deaths under one year of age.									
	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917
Premature Birth ...	113	89	96	97	91	115	99	95	65	68
Diarrhœa and Enteritis	141	77	77	201	44	125	88	88	63	44
Pneumonia	46	42	46	39	59	38	46	43	44	49
Bronchitis	30	33	46	26	53	40	31	33	21	48
Whooping Cough	25	30	11	32	22	9	38	21	15	19
Tuberculosis (all forms)	29	22	24	25	15	20	18	23	18	5
Atrophy and Debility	80	61	63	57	60	73	63	58	51	40
Convulsions	52	55	44	41	31	42	38	26	31	14
Measles	2	7	16	1	42	2	8	10	5	4
Congenital Defects ...	18	26	22	20	15	13	18	15	13	11

NOTIFICATION OF BIRTHS ACT, 1907.—This Act, which was adopted in 1908, provides for the notification to the Medical Officer of Health of every birth within the City by the father, if residing in the house where the birth takes place, and by any person in attendance upon the mother at the time of, or within six hours after, the birth. The notification must be given to the Medical Officer of Health within thirty-six hours after birth.

The following Table gives the number of births notified under this Act in each quarter of the year 1917, together with the number of still-births notified.

TABLE XXVII.

1917	Births notified by Midwives	Births notified by Doctors or Parents	Duplicate Notifications received	Actual Number of Births notified	Still-births notified
1st Quarter ...	959	32	14	932	45
2nd „ ...	981	26	11	959	37
3rd „ ...	835	32	8	829	30
4th „ ...	820	31	4	816	31
Totals ...	3,595	121	37	3,536	143

Births notified during the year 1917 3,536
Births registered during the year 1917 3,684

It will be seen that 96·0 per cent. of the births registered were notified.

FOOD INSPECTION :—

TABLE XXVIII.

Animals slaughtered at the Municipal Slaughter-houses during the year 1917 :—

	Roath Abattoir	Canton Abattoir	Totals
Cattle	12,701	882	13,583
Sheep and Lambs	54,570	6,714	61,284
Calves	8,043	211	8,254
Pigs	18,034	2,053	20,087
Totals	93,348	9,860	103,208

TABLE XXIX.

Unsound carcases of meat surrendered at Abattoirs and destroyed by arrangement with the owners :—

Place	Carcases of				Totals
	Beef	Mutton and Lamb	Veal	Pork	
Roath Abattoir	113	66	15	38	232
Canton Abattoir	1	5	...	9	15
Totals	114	71	15	47	247

FACTORY AND WORKSHOP ACT, 1901.—Under Section 132 of the Factory and Workshop Act, 1901, the Medical Officer of Health is required in his annual report to deal specifically with the administration of the Act (so far as the matters under the charge of the Sanitary Authority are concerned), and to send a copy of this report to the Secretary of State.

The Inspectors of Workshops made altogether 1,597 visits of inspection to factories, workshops, etc., during the year. 122 notices regarding nuisances or sanitary defects were served and 105 notices were complied with. Details of the work carried out under the Act are set forth in Tables XXX. to XXXI. in this Report.

TABLE XXX.

1.—Inspection of Factories, Workshops and Workplaces.

Premises.	Number of		
	Inspections.	Written Notices.	Prosecutions.
Factories (including Factory Laundries)	331	10	...
Workshops (including Workshop Laundries)	895	58	...
Workplaces (other than Outworkers' premises included in Part 3 of this Report)	371	54	...
Total	1,597	122	...

2.—Defects Found in Factories, Workshops and Workplaces.

Particulars.	Number of Defects	
	Found.	Remedied
Nuisances under the Public Health Acts :—		
Want of cleanliness	37	32
Want of ventilation	—	—
Overcrowding	—	—
Other nuisances	51	44
Sanitary accommodation ... insufficient	8	4
Sanitary accommodation ... unsuitable or defective ...	5	4
Sanitary accommodation ... not separate for sexes ...	11	8
Breach of special sanitary requirements for bakehouses (Sec. 97 to 100)	15	13
Total	127	105

TABLE XXXI.—con.

3.—Home Work.

Nature of Work.	Outworkers' Lists, Section 107.							Outwork in Unwholesome Premises, Section 108.		Outwork in Infected Premises, Sections 109, 110	
	Lists received from Employers						Notices served on Employers as to keeping or sending lists.	Instances.	Notices served.	Instances.	Orders made (S. 110).
	Sending twice in the year.			Sending once in the year.							
	Lists.	Outworkers		Lists.	Outworkers.						
		Contractors.	Workmen.		Contractors.	Workmen.					
Wearing Apparel—											
(1) making, etc. ...	44	...	97	9	...	60	119	3	3	6	—
(2) cleaning & washing	...	...	...	...	...	...	...	...	...	...	...

4.—Registered Workshops.

Workshops on the Register (S. 131) at the end of the Year.	Number.
Bakers	221
Bootmakers	174
Dressmakers and Milliners	239
Laundries	52
Tailors	115
Miscellaneous	642
Total number of Workshops on Register ...	1,443

5.—Other Matters.

Class	Number
Matters notified to H.M. Inspector of Factories :—	
Failure to affix Abstract of the Factory and Workshop Act (Sec. 133) ...	—
Action taken in matters referred by H.M. Inspectors as remediable under the Public Health Acts but not under the Factory Act :—	
Notified by H.M. Inspector	10
Reports (of action taken) sent to H.M. Inspector	10
Other (Notices of Occupation of Workshops received from H.M. Inspector) ...	50
Underground Bakehouses in use at the end of the year	3.

SANITARY INSPECTION OF DISTRICT.—The general sanitary inspection of the district, inspection of factories, and workshops, inspection of shops under the Shops Acts, inspection of seamen's and common lodging houses, the inspection of meat and other food in shops and stores, and the taking of samples for analysis under the Sale of Food and Drugs Acts, were carried out during the year 1917 by Mr. S. Evans, Chief Inspector of Nuisances, with the assistance of nine Assistant Inspectors.

For the purposes of inspection, the City is divided into six districts, as follows :—

District No. 1.—Canton and Riverside Wards.
,, No. 2.—Splott Ward and part of Adamsdown Ward.
,, No. 3.—Park Ward and part of Cathays Ward.
,, No. 4.—Central Ward and parts of Cathays and South Wards.
,, No. 5.—Grangetown Ward and part of South Ward.
,, No. 6.—Roath Ward and part of Adamsdown Ward.

The following statement, in addition to other tables in this report, shows the nature and extent of the work performed by the Chief Inspector and his Assistants.

SUMMARY OF SANITARY INSPECTION OF DWELLING HOUSES, &C., DURING THE YEAR 1917 :—

Complaints of Nuisances received	889
Houses, etc., inspected	5,216
House-to-house inspections (including testing of drains)	388
Re-inspections of houses, etc.	11,442
Drains tested with smoke	79
,, ,, chemicals	432
Notices served :—	
Informal	1,793
Statutory	44
Notices complied with :—	
Informal	1,689
Statutory	44
Towns Improvement Clauses Act, 1847 :—	
Notices *re* defective shutes served	5
,, ,, ,, complied with	14

In connection with the sanitary inspection of dwelling-houses, 3,210 sanitary defects were remedied, details of which are given below :—

Drains unchoked and repaired	481
Soil pipes, ventilation shafts and fresh air inlets repaired	18
New W.C. pans provided	58
New syphon traps provided	4
New gully traps provided	2
W.C.s repaired	19
W.C.s cleansed	17
Flushing apparatus provided	6
,, ,, repaired	55
Trough outlets repaired	57
Roofs repaired	615
Shutes repaired	580
Down-pipes repaired	90
Chimneys repaired	40
Inside plastering repaired	95
Outside ,, ,,	94
Areas repaired	22
Yard surfaces repaired	124
Yards, etc., cleansed	2

Outhouses cleansed or repaired	3
Accumulations removed	76
Manure receptacles provided	1
,, ,, repaired	3
Boundary and party walls repaired	11
Doors repaired	60
Floors repaired	149
Windows repaired	156
Ceilings repaired	60
Houses, bedding, etc., cleansed	41
Ventilation improved	3
Water supply provided	92
Overcrowding abated	20
Other Nuisances abated	156

Particulars as to the inspection of premises periodically inspected during the year 1917 are herewith given :—

Offensive Trades :—

Number on Register	41
Inspections	211
Notices served	2
Notices complied with	2

Dairies, Cowsheds and Milkshops :—

Milkshops on Register	405
Cowsheds on Register	8
Inspection of milkshops	1,758
,, cowsheds	73
Notices served	34
Notices complied with	30

Shops, Stores, &c. :—

Inspections of butchers' shops	875
,, provision shops	224
,, markets	656
,, wholesale stores	964
,, fish and fruit shops	908
,, storage premises	189
,, army stores	—
Other Inspections	242

Miscellaneous Inspections :—

Public Houses	97
Notices served	11
Notices complied with	9
Theatres, etc.	5
Notices served	—
Notices complied with	—
Fried-fish Shops	300
Notices served	16
Notices complied with	13
Ice-cream Shops	—
Notices served	—
Notices complied with	—
Inspections of Urinals	37
Visits to owners *re* notices	384

COMMON LODGING HOUSES :—

Common Lodging Houses on Register	19
Day Inspections	1,176
Night Inspections	—
Notices served	68
Notices complied with	67

SEAMEN'S LODGING HOUSES :—

Seamen's Lodging Houses on Register	177
Licences granted	232
Licences relinquished	55
Day Inspections	4,760
Night Inspections	4
Notices served under Byelaws	153
Notices under Byelaws complied with	155
Notices served under Public Health Acts	32
Notices under Public Health Acts complied with	38
Persons cautioned for lodging seamen without being licensed ...	32
Legal proceedings for lodging seamen without being licensed ...	1

I have the honour to be,

My Lord Mayor and Gentlemen,

Your obedient Servant,

EDWARD WALFORD,

Medical Officer of Health.